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Product Name :	**Product Code :**
Investigation of Cam Mechanisms	TN128

Description :

Investigation of Cam Mechanisms

Technical Specification :

Investigation of Cam Mechanisms
The unit is perform the following experiments and investigations:

Learning Objectives / Experiments:
Elevation curves in non-matching engaging member
Elevation curve in sprung-engaging member
Determine the limit speed and compare with theory
Influence of moving mass on the motion of cam member/plunger
Influence of return-spring stiffness and preload on the motion of cam member/plunger
Comparison of the elevation curves of different cam-member shapes
Comparison of elevation curves with theory

Specification:
Investigation of cam mechanisms
Cam-shaped cam members: tangent cam, hollow cam, 2 circular arm cams with different head radius
2 different engaging members: flat receiver with plunger or rolling receiver with plunger
3 interchangeable return springs and spring preload
Drive motor with variable speed
Oscillating mass can be increased with 5 additional weights
Mechanical drum recorder with nib and coated paper

Optical speed sensor
Transparent protective cover for safe operation

Technical Data:
Drive motor
DC asynchronous motor with frequency converter
Power: 250W
Speed: 60â€¦670rpm
Cam-shaped cam member
Stroke, each: 15mm
Opening angle, each: 140Â°
Spring stiffness
Hard: 5,026N/m
Medium: 2,601N/m
Soft: 613N/m
Masses
Additional weight: 200g
Plunger: 530g
Flat receiver: 93g
Rolling receiver: 20g
Recorder: toothed belt drive
230V, 50Hz, 1 phase
230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase
Dimensions and Weight
Length x Width x Height: 800x440x440mm (experimental unit)
Weight: 40kg
Length x Width x Height: 360x320x160mm (display and control unit)
Weight: 5kg.

Naugralabequipments

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